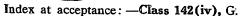
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# PATENT SPECIFICATION



Application Date: August 21, 1950 No. 20617 / 50.

Complete Specification Published: March 4, 1953



#### COMPLETE SPECIFICATION

## Improvements in Travelling Rugs

I, WALTER RONALD ARMSTRONG, of British Nationality, of The Bungalow, Shalloch Park, Girvan, Ayrshire, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:-

The subject of this invention is a travelling

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A travelling rug according to the invention comprises two face portions joined to one another along at least two longitudinal lines of juncture intermediate the longitudinal edges of the rug to form several side by side compartments, one face portion being formed with a slot near one end of the rug, a pocket located between the face portions and fastened to the edge portions of the slot, whereby the slot provides entry to the pocket, and 20 fastening means operable to connect temporarily to one another the edge portions of

The slot may be formed in the section of the appropriate face portion between the 25 longitudinal lines of juncture of the face portions; on may be formed in the section, of the appropriate face portion between a longitu-. dinal edge of the face portion and the adjacent line of juncture of the face portions.

The slot may be parallel with, or at right angles to the lines of juncture of the face por-

The body of the rug may be woven in one piece, opposite face portions being connected 35 to one another in the process of weaving. Alternatively, two separate sheets may be fastened together by sewing or otherwise at the appropriate places.

The separable edge portions of the pocket 40 may carry the stringers of a sliding clasp

The pocket may be of a different material to the rug. The material may be waterproof

A practical embodiment of the invention is illustrated in the accompanying drawings in which Fig. 1 is a plan view of a rug when opened out, and Fig. 2 is a section through the line 2—2 in Fig. 1.

In the drawings, 1 and 2 denote face portions joined along longitudinal lines of junc-

[Price 2/8]

ture 3. 4 denotes a slot formed in one of the side compartments, the edges of the slot carrying stringers 5 of a sliding clasp fastener. 6 denotes a pocket located within the 55 side compartment, the edge portions of a slot providing entry to the pocket being fastened to the edge portions of the slot 4 in the side compartment,

In practice, the rug may be stored, or may 60 be used as a cushion by first folding the rug longitudinally along the lines of juncture 3, folding the long narrow portion thus formed over on itself a number of times until the rug is folded into a small space, then inserting 65 the folded rug into the pocket 6 by the process of turning the pocket inside out over the folded rug, the edge portions of the pocket being thereupon closed by operating the fastener. The rug is now in the form of a 70

What I claim is:—

1. A travelling rug comprising two face portions of one another along at least two longitudinal lines, of juncture intermediate the longitudinal edges of the rug to form several side by side compartments, one face portion being formed with a slot near one end of the rug, a pocket located between the face portions and fastened to the edge 80 portions of the slot, whereby the slot provides entry to the pocket, and fastening means operable to connect temporarily to one another the edge portions of the slot

2. A travelling rug as claimed in Claim 1 85 in which the slot is formed in a section of the appropriate face portion between the longitudinal lines of juncture of the face portions.

3. A travelling rug as claimed in Claim 1 in which the slot is formed in that section of 90 the appropriate face portion between a longitudinal edge of the face portion and the adjacent line of juncture of the face portion.

4. A travelling rug as claimed in Claim 1

in which the slot is parallel to the lines of 95

juncture of the face portions.

5. A travelling rug as claimed in Claim 1 in which the slot is at right angles to the lines of juncture of the face portions.

6. A travelling rug as claimed in Claim 1 100 in which the body of the rug is woven in one piece, opposite face portions being connected

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to one another in the process of weaving.

7. A travelling rug as claimed in Claim 1 in which the fastening means is a sliding clasp fastener.

8. A travelling rug as claimed in Claim 1 in which the pocket is of waterproof

material.

A travelling rug substantially as described with reference to the accompanying drawings.

CRUIKSHANK & FAIRWEATHER, Chartered Patent Agents,

29, St. Vincent Place, Glasgow, C. 1, Agents for the Applicants.

#### PROVISIONAL SPECIFICATION

## Improvements in Travelling Rugs

I, Walter Ronald Armstrong, of British Nationality, of The Bungalow, Shalloch Park, Girvan, Ayrshire, do hereby declare this invention to be described in the following 15 statement:—

The subject of this invention is a travelling

rug.

A travelling rug according to the invention comprises two face portions joined to one 20 another along two longitudinal lines of juncture intermediate the longitudinal edges of the rug to form a middle compartment flanked by two side compartments, one face portion being formed with a slot extending 25 between the longitudinal lines of juncture, at right angles thereto, and near one end of the rug, a pocket located within the middle compartment and fastened to the edge portions of the slot, whereby the slot provides entry 30 to the pocket, and fastening means operable to connect temporarily to one another the edge portions of the slot.

The rug may be woven in one piece, opposite face portions being connected to one another in the process of weaving. Alternatively, two separate sheets may be fastened

together by sewing or otherwise at the appropriate places.

The separable edge portions of the pocket may carry the stringers of a sliding clasp 40 fastener

The pocket may be of a different material to the rug. The material may be waterproof material.

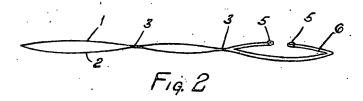
In practice, the rug may be stored, or may be used as a cushion by first folding the rug longitudinally along the lines where the two face portions of the rug are joined together, folding the long narrow portion thus formed over on itself a number of times until the rug is folded into a small space, then inserting the folded rug into the pocket by the process of turning the pocket inside out, the edge portions of the container being thereupon fastened together. The rug is now in the form 55 of a cushion.

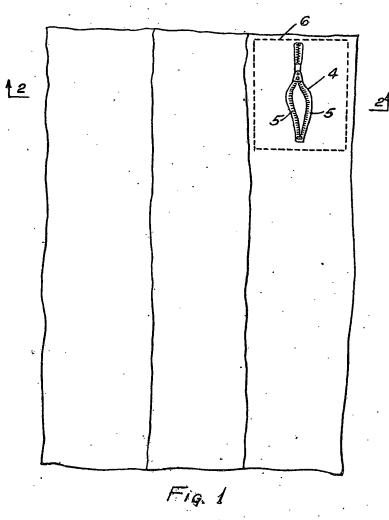
CRUIKSHANK & FAIRWEATHER, Chartered Patent Agents, 29, St. Vincent Place, Glasgow, C.1, and 29, Southampton Buildings, London, W.C.2, Agents for the Applicant.

Leamington Spa: Printed for Her Majesty's Stationery Office, by the Courier Press.—1953. Published at The Patent Office, 25, Southampton Buildings, London, W.C.2, from which copies may be obtained.

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688,307 / SHEET COMPLETE SPECIFICATION This drawing is a reproduction of the Original on a reduced scale.





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## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 19.03.2003 Bulletin 2003/12

(51) Int Cl.7: A47G 9/08

(43) Date of publication A2: 07.08.2002 Bulletin 2002/32

(21) Application number: 02250666.1

(22) Date of filing: 31.01.2002

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 02.02.2001 GB 0102655

(71) Applicant: Worlds Apart LTD London, SW4 6JP (GB)

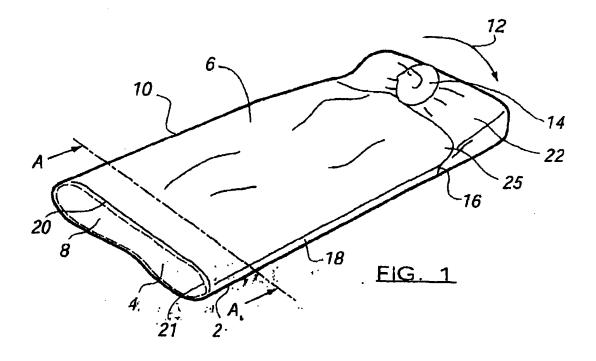
(72) Inventor: Stewart, John London, SW1P 4PZ (GB)

(74) Representative: Wood, Graham Balley Walsh & Co,5 York Place Leeds LS1 2SD (GB)

# (54) Sleeping means

(57) The invention relates to a sleeping means which can be moved between the storage and in-use conditions. The sleeping means typically comprise a deformable mattress which is inflatable and which can be located within an envelope formed of sheet material and, attached to the envelope is a cover portion which,

with the sheet material of the envelope defines a sleeping area into which a person can move. The cover portion can be permanently attached to the envelope but further edges of the same can be selectively attached using zips or other fastening means. An additional portion of sheet material can be provided which can be selectively used to act as a storage pocket.





# **EUROPEAN SEARCH REPORT**

Application Number EP 02 25 0666

Category	Citation of document with i of relevant pass	ndication, where appropriate, sages		levant daim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
X Y	US 5 640 725 A (ANDO ET AL.) 24 June 1997 (1997-06-24) * figures *			5,7, ,23 9, -15		
Y	US 3 633 227 A (TEG 11 January 1972 (19 * figures *	11-:	14	*		
Y	US 4 458 372 A (MIL 10 July 1984 (1984- * column 1, line 28	 LS) 07-10) - line 48; figures	* 8,9	, 15		
X	US 4 862 533 A (ADA 5 September 1989 (1 * figures *	AMS, III) 1989-09-05)		,10, 24		
X	DE 25 16 781 A (MÖCKING) 28 October 1976 (1976-10-28)			6,10, ,18,		
Υ	* claims 6,7; figures 4-6 *			2.5	TECHNICAL F SEARCHED	IELDS (Int.Cl.7)
Y	DE 26 10 797 A (MÖCKING) 29 September 1977 (1977-09-29) * figure 5 *		20		A47G A47C	(ma.ci.r)
X	US 3 751 741 A (HEN 14 August 1973 (197 * column 2, line 31 *	1,4,19,2	18, 21,22		ü	
x	US 4 087 874 A (CAL 9 May 1978 (1978-05 * column 2, line 9	10-1	5,6, 2			
X	FR 2 713 902 A (RIO 23 June 1995 (1995- * figure 3 *		1-4,10, 11,13,23			
	The present search report has	been drawn up for all claims		-		
Place of search THE HAGUE		Date of completion of the search 24 January 2003		Raur	Examiner geling, G.L	н
X : part Y : part docu A : tech	ATEGORY OF CITED DOCUMENTS icutarly relevant if taken alone icutarly relevant if combined with anot imen) of the same category inological background -written disclosure	T : theory or E : serifier pa after the fi	principle underly tent document, ling date I cited in the app cited for other t	ying the ir but publis plication reasons	ivention hed on, or	

# ANNEX TO THE EUROPEAN SEARCH REPORTON EUROPEAN PATENT APPLICATION NO.

EP 02 25 0666

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-01-2003

	Patent docume cited in search re		Publication date		Patent family member(s)	Publication date
US	5640725	Α	24-06-1997	JP	8154797 A	18-06-1996
US	3633227	Α	11-01-1972	NONE		
US	4458372	A	10-07-1984	CA	1207922 A1	15-07-1986
				JP	1509828 C	26-07-1989
				JP	60012017 A	22-01-1985
				JP	63060646 B	25-11-1988
				UŞ	4739529 A	26-04-1988
				US	4856131 A	15-08-1989
US	4862533	Α	05-09-1989	NONE		
DE	2516781	A	28-10-1976	DE	2516781 A1	28-10-1976
DE	2610797	Α	29-09-1977	DE	2610797 A1	29-09-1977
US	3751741	Α	14-08-1973	NONE		
US	4087874	Α	09-05-1978	NONE		
FR	2713902	Α	23-06-1995	FR	2713902 A1	23-06-1995

FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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# **EUROPEAN PATENT APPLICATION**

(43) Date of publication: 07.08.2002 Bulletin 2002/32

(51) Int CI.7: A47G 9/08

(21) Application number: 02250666.1

(22) Date of filing: 31.01.2002

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
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Designated Extension States:
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(30) Priority: 02.02.2001 GB 0102655

(71) Applicant: Worlds Apart LTD London, SW4 6JP (GB)

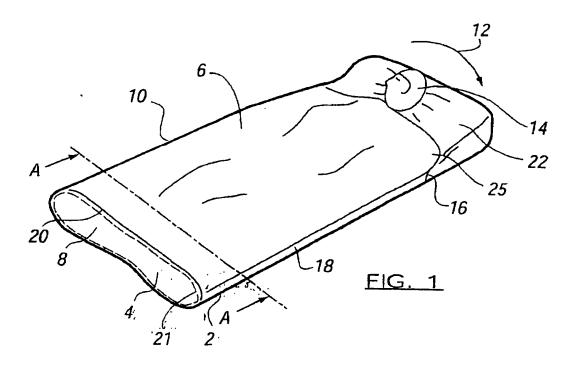
(72) Inventor: Stewart, John London, SW1P 4PZ (GB)

(74) Representative: Wood, Graham Balley Walsh & Co, 5 York Place Leeds LS1 2SD (GB)

# (54) Sleeping means

(57) The invention relates to a sleeping means which can be moved between the storage and in-use conditions. The sleeping means typically comprise a deformable mattress which is inflatable and which can be located within an envelope formed of sheet material and, attached to the envelope is a cover portion which,

with the sheet material of the envelope defines a sleeping area into which a person can move. The cover portion can be permanently attached to the envelope but further edges of the same can be selectively attached using zips or other fastening means. An additional portion of sheet material can be provided which can be selectively used to act as a storage pocket.



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#### Description

[0001] The invention of this application relates to sleeping means for use in providing a comfortable, portable, sleeping location for a person. In particular, although not necessarily exclusively, the apparatus can be used in camping, or in other locations where a person may temporarily wish to sleep, perhaps if they are visiting other persons who do not have sufficient beds for use by them or for use by a child who is sleeping over at a friend's house. It should therefore be appreciated that the sleeping means can be used in many different environments and can be adopted to different designs to suit the particular environment.

[0002] For temporary sleeping accommodation, the use of sleeping bags, which typically comprise an envelope of material which has free ends along one side which can be zipped or otherwise joined together to allow the person to move into and get out of the envelope, is well known. When the envelope is zipped the person is kept warm. A problem with the sleeping bag however is that while the same may provide the warmth required by the user, if the user is lying on a floor, or an uneven surface, they can be relatively uncomfortable due to the relative hardness and/or unevenness of the surface.

[0003] It is also known for people to sleep on an inflatable mattress, with bedding placed on top of the mattress such as sheets, duvets and the like. This can provide added comfort but what typically happens during use is that the bedding moves with respect to the inflatable mattress and this can allow the person to come into direct contact with the plastic mattress material which can be uncomfortable and/or unpleasant for the person, often causing them to wake up. Alternatively, the person can slip off the mattress during sleep. This is a particular problem with children and can make the same unattractive to the child.

[0004] The aim of the present invention is to provide a sleeping means which allows comfort and warmth to be obtained for the person using the same and for the same to be maintained throughout the night as the person sleeps. It is a further aim to allow the sleeping means to be portable and easily stored when not in use. It is a yet further aim to provide added utility to the sleeping means such that other facilities can be provided to the user hence adapting the sleeping means to suit particular requirements and uses such as for example, children's sleepover parties, outdoor camping and the like. [0005] In a first aspect of the invention there is provided sleeping means comprising a sheet material envelope having an opening into a cavity defined therein for the reception of, and substantial enclosure therein, of a deformable mattress characterised in that the sleeping means further includes a cover section which, in conjunction with the top surface of the envelope, defines a sleeping area in which a person can lie and be supported by the mattress and the cover portion is movable between a first position to substantially enclose the person within the sleeping area and a second position to allow the person to get into or out of the sleeping area of the sleeping means.

[0006] Typically therefore, the sleeping means has an opening transversely to the length of the sleeping means into a cavity defined by the sheet material envelope for the reception and substantial enclosure therein of the mattress which is typically an inflatable mattress. The mattress is typically inserted into the cavity in a deflated condition whereupon, the same can then be inflated as required for use.

[0007] In a preferred embodiment, at least one edge of the cover portion is integrally attached to the sheet material which defines the cavity for the mattress. Typically a further portion of the cover is selectively engageable with the sheet material envelope by any of stud fastenings, loop and hook fastenings, zips or other suitable releasable fastening means so as to allow the cover to be retained in the first position.

[0008] In a preferred embodiment the deformable mattress is an inflatable mattress.

[0009] Typically when the cover portion is placed over the person in the sleeping area and the potion of the same is selectively engaged in the fist position, only one edge remains free from the sheet material envelope said edge being that most closely located to the head end of the sleeping means.

[0010] In one embodiment, the sleeping means includes a pillow receiving section which can receive either a pillow which is separate to the mattress or, preferably, a pillow which is formed by a formed part of the inflatable mattress.

[0011] In one embodiment, when the sleeping means is not in use, the separate pillow can be removed from the pillow receiving section or the mattress can be deflated so as not to fill the pillow receiving section, and said pillow receiving section vacate the is used as a storage means such that the mattress and the remaining sheet material are moved, typically by rolling up the same, and placed into the pillow receiving section where it is material for storage. In one embodiment the pillow receiving section can be shaped so as to depict a well known character, or animal or other shape. Preferably said character, animal or shape, or material linked to the same, is also depicted at another location on the sleeping means, typically on the cover portion. This embodiment is particularly attractive to the sleeping means for use by children when cartoon or other well known children's characters can be depicted.

[0012] In one embodiment, the cover portion includes filling and/o insulating material to add warmth. For example the cover can be provided in the form of a duvet or other warmth giving configuration so as to improve the warmth and comfort to the person in the sleeping area.

[0013] The fabric used for the sheet material can be any suitable fabric of a type for a person sleeping.

[0014] In a further embodiment of the invention an ad-

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ditional portion of sheet material is provided, said portion typically having at least one edge permanently fixed to the sleeping means and some of the remaining parts selectively engageable with the sheet material. Said additional portion when selectively engaged, forms a storage pocket into which the remainder of the sleeping means comprising the sheet material and mattress can be inserted and stored. In one preferred embodiment the additional potion is attached to the underside of the sleeping means such that when the sleeping means is in use it is not normally viewable. Preferably the surface of the additional portion which faces the sheet material of the sleeping means when the sleeping means is in use becomes an outer surface of the sleeping means when moved to a storage condition. Preferably said surface includes an image applied thereto.

[0015] Preferably handles are provided such that when the sleeping means is stored, the same can be transported.

[0016] Typically the said additional portion is selectively engaged to the sheet material via a zip fastener. Typically the additional portion is selectively engaged once the sheet material and mattress has been moved to the storage position.

[0017] In a further embodiment of the invention an inflatable surround is provided around part or all of the sheet material so as to prevent the person sleeping in the same moving or falling off the inflatable mattress and/or to allow further facilities to be provided such as cup holders, book holders, and the like.

**[0018]** In a yet further embodiment of the invention the sleeping means includes an enclosure structure which covers a portion of the sleeping means.

**[0019]** The enclosure typically incorporates a frame over which sheet material can be placed and acts to support and form the enclosure. In one embodiment the enclosure is used as an insect shield to minimise interference from those insects in the environment where the sleeping means is being used.

[0020] In one embodiment the frame is formed of a series of inflatable members which can be integral with or separate to the inflatable mattress.

[0021] In a further embodiment the frame is formed of a resilient member or members which are biased to an erected condition so as to allow the same to move between a coiled, storage condition and an extended erected condition.

[0022] Preferably the resilient member(s) moves to the extended position automatically upon release and remains in that position until physically coiled.

[0023] In a preferred embodiment the inflatable mattress is wholly inflated and deflated via a single valve inlet/outlet. Typically the valve has a diameter of more than 15mm to ensure rapid inflation or deflation of the inflatable mattress.

[0024] A specific embodiment of the invention is now described with reference to the accompanying drawings, wherein:-

Figure 1 illustrates a perspective view of the sleeping means in use in accordance with the invention;

Figures 2A and 2B illustrate sectional end views of the sleeping apparatus in second and first conditions respectively, in one embodiment;

Figure 3 illustrates a sleeping means according to one embodiment of the invention in plan;

Figures 4A and B illustrates sectional views of the sleeping means of Figure 3 along lines A-A and B-B respectively;

Figure 5 illustrates a further embodiment of the sleeping means;

Figures 6 illustrates an embodiment of the sleeping means in one embodiment of a storage condition;

Figure 7 illustrates the sleeping means of Figure 6 in an in-use condition;

Figures 8A-E illustrate the movement of a sleeping means in accordance with the invention between in use and storage conditions in a further embodiment;

Figure 9 illustrates a sleeping means with enclosure in accordance with a further embodiment of the invention.

[0025] Referring firstly to Figures 1, 2A and B there is illustrated a sleeping means in accordance with a first embodiment of the invention, said apparatus comprising sheet material 2 which forms an envelope with a cavity 4 and a cover portion 6. The cavity 4 is used to receive an inflatable mattress 8 therein as indicated by broken lines, which extends the length of the cavity and hence the sleeping means.

[0026] The cover portion 6 is attached at one edge 10 to the sheet material envelope and together with the top sheet 11 of the envelope 4 defines a sleeping area 5. The free end 16 of the cover portion can be moved as indicated by arrow 12 once a person 14 is in the sleeping area so as to cover themselves as shown. The free edge 16 of the cover can be selectively attached to the edge 18 of the cavity sheet material as shown, in Figure 2B by zip, hook and loop fastening or other fastening means. The foot end edge 20 of the cover portion may also be attached to the bottom edge 21 of the cavity sheet material 4 thus enclosing the person 14 in the sleeping means with the exception of the aperture 25 at the head end of the sleeping means.

[0027] A pillow portion 22 is provided over which the cover 6 does not pass and this portion 22 is formed so as to be higher than the remainder of the mattress to allow the insertion of a pillow or alternatively and pref-

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erably, to allow the expansion of the inflatable mattress to form a higher pillow portion 27.

[0028] Figures 2A and 2B illustrate a cross section along line A-A of Figure 1 and show the sleeping means with the cover portion in a first, closed, condition in Figure 2B and a second, open, condition in Figure 2A. In Figure 2A there is shown the cavity 4 with the inflatable mattress 8 in an inflated condition. In this case, the cover 6 is shown in an open position as the person has not yet entered the sleeping area and the cover portion is attached to the sheet material envelope along the edge 10.

[0029] Figure 2B illustrates the same sleeping means but in this case, the cover portion 6 is in the closed position to enclose a person who wishes to go to sleep in the sleeping area with the cover portion placed over the person to keep the person warm. It is envisaged that it will be particularly preferable for the cover portion 6 to be formed to include or receive some form of warmth giving material so that the cover 6 is effectively a duvet. quilt or the like. In many instances, it may be preferred for all of the sheet material to be provided with pockets to receive warmth giving materials such as feathers etc to be selectively placed therein and thereby allow the sleeping means to be adapted for use in different environmental conditions and/or to suit personal preferences. Furthermore the layer of material 11 between the mattress and the person in the sleeping area can be padded to make the sleeping in the same more comfortable.

[0030] A further embodiment of the sleeping means is illustrated with respect to Figures 3, 4A and B, using the same reference numbers. In this embodiment the mattress 8 is shown in an inflated condition and includes the pillow portion 27 which fills the pillow receiving pocket 22 of the sheet material to form a pillow for the use of the sleeping means.

[0031] Thus, in use, the mattress is provided in a deflated condition whereupon the same is inserted into the cavity through an opening 29 and moved along the length of the cavity. Although the mattress can then be removed in a deflated state for washing and the like, it is envisaged that the mattress will normally remain in the cavity, moving between deflated and inflated conditions as required. In an alternative embodiment, not shown, the inflatable mattress may in fact be provided integrally within the envelope so that the same does not need to be inserted into the envelope.

[0032] In whichever embodiment, a single valve inlet/outlet 24 provided for the inflation and deflation of the mattress 8. In the embodiments shown the valve is provided at the head end adjacent the pillow. With this invention, the valve and inflation system is designed to allow for full inflation from one inflation valve and by maximising the size of the aperture so quick inflation and deflation of the mattress can be achieved.

[0033] Accordingly, in one embodiment, the internal construction of the inflatable bed is such that there is full

communication between all internal sections 31 as shown in Figure 4B, and also with the integral pillow section 27 and the rest of the mattress. The valve preferably has a large entrance diameter, in excess of 15mm and most probably around 25mm. Whilst allowing for swift inflation, either with a manual pump or an electric pump, it also allows for swift deflation, as all the chambers deflate through this large exit orifice. Typically when deflating, the sheet material and mattress are rolled as one towards the opened valve 24 thus allowing the collapsing of the entire bed in seconds.

[0034] With the inflatable mattress retained in the cavity defined by the sheet material when stored the subsequent reuse of the sleeping means becomes much simpler thereafter.

[0035] Alternatively, the mattress can of course be simply inserted into the cavity in a deflated or inflated state every time it is required to be used.

[0036] The sleeping means as described therefore allows the person to be fully enclosed within the sleeping area of the sleeping means and, importantly, ensures that even when sleeping and moving around in their sleep, the person will not be able to come into direct contact with the inflatable mattress and equally, the inflatable mattress will always stay with the bedding material.

[0037] Figure 5 illustrates a further feature of the invention whereby in addition to the sleeping means sheet material and mattress, a surround 50 is provided around the head portion of the sleeping means. This surround has two uses, a first being that it provides support for the persons head should it fall off the raised pillow potion during sleep. Secondly the surround can provide other functions such as a drinks holder cavity 52, book holder 54 and the like. These further functions can be used when the person is lying down or alternatively the person can move to a sitting position using the pillow potion and the surround 50 as a back support and then use the functions as and when required.

40 [0038] In one embodiment the surround is inflatable along with the mattress by the provision of interconnecting ports and via valve 56 or alternatively the surround can be an additional feature which may be selectively attached to the sleeping means by the user.

45 [0039] In one preferred embodiment it is possible to alter the shape of the bed by either changing the shape of the mattress itself (e.g. by having a rounded end, rather than a square end) or by adding 3 dimensional elements 58 to the sheet material that surrounds it.

50 [0040] An example of this is illustrated in Figures 6 and 7 where it is shown how elements 58 are added to the pillow receiving pocket 22 to represent a cat and a printed or otherwise applied image 60 on the cover 6 of the sleeping means interacts with these additional 3D elements to further improve the attractiveness of the sleeping means, especially to children.

[0041] The storage of the sleeping means when in a deflated condition is also important in that for the sleep-

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ing means to be attractive for purchase it is important that the same can be stored easily and compactly. Figures 6 and 7 illustrate a first method of storage wherein the soft plush 3 dimensional pillow receiving portion 22 is also usable as a storage bag as shown in Figure 6. To move from the in use position of Figure 7 to the storage condition of Figure 6 the deflated mattress and sheet material are rolled from the foot end 21 to the pillow end. The pillow receiving potion 22 has an opening, not shown, through which the rolled up sleeping means is inserted into the pillow receiving portion. Typically the opening has a zip and the provision of a shoulder strap allows the same to be easily transportable. To move the same to an in use position the opening is unzipped and the entire mattress with sheet material then rolled out and inflated in the normal way. The empty pillow receiving portion can then be filled with a standard pillow or by the inflation of a suitably formed portion 27 of the mattress, and the resulting soft shape can then become a 3D pillow at the end of the bed as shown in Figure 7. [0042] In an alternative embodiment as shown in Figures 8A-E it is possible to store the sleeping means by providing an additional portion of sheet material 62 to the underside or base 64 of the sleeping means. The additional portion 62 has a zip or other selective fastening means 66 with a zip on 3 sides that can selectively be used to secure the portion 62 back to the base 64 as is shown. In Figure 8A the sleeping means is shown in an in use condition with the same upside down and the base 64 uppermost and with the mattress deflated. With the selective engagement means 66 released, the mattress and sheet material are folded towards the addi-

[0043] When in this condition the additional portion is folded around the sheet material and mattress portions 68,70 as indicated by arrow 72 to reach the position shown in Figure 8C.

tional portion 62 in sections as indicated by 68,70 in Fig-

[0044] In this position, the zip 66 can be fastened and so the storage bag formed as shown in Figures 8D and E. A handle 74 can be provided. In order to add to the attractiveness of the storage bag the surface 76 of the additional portion can have images 78 formed thereon as when the bag is formed as shown in Figure 8E this surface 76 forms an external surface of the bag.

[0045] The advantage of this embodiment is that an effective storage bag with a minimal amount of additional material is achieved as the back of the bed becomes part of the bag.

[0046] Figure 9 illustrates a further embodiment of the invention where the sleeping means includes, in addition to the mattress and sheet material, an enclosure 80. The enclosure can be formed from a frame such as an inflatable frame or, as shown, a frame formed from a series of resilient members 82. The enclosure can be provided as a novelty feature for children or, in warm climates, it is advantageous to enclose the sleeping area with some sort of mesh envelope 84 so as to exclude

mosquitoes or other insects. With this embodiment of the invention, it is possible to build in a closed hood system that excludes insects from the area around the pillow. This hood system can be simply constructed using fibreglass rods, or by using a combination of fibreglass and spring steel so that the frame is biased to an erected enclosure condition when the sleeping means is moved from the storage condition.

#### Claims

- 1. A sleeping means comprising a sheet material envelope having an opening into a cavity defined therein for the reception of, and substantial enclosure therein, of a deformable mattress characterised in that the sleeping means further includes a cover section which, in conjunction with the top surface of the envelope, defines a sleeping area in which a person can lie and be supported by the mattress and the cover portion is movable between a first position to substantially enclose the person within the sleeping area and a second position to allow the person to get into or out of the sleeping area of the sleeping means.
- A sleeping means according to claim 1 characterised in that at least one edge of the cover portion is integrally attached to the envelope sheet material which defines the cavity for the mattress.
- 3. A sleeping means according to claim 1 characterlsed in that part of the remainder of the cover is selectively and releasably attached to the envelope sheet material by any of stud fastenings, loop and hook fastenings, zip or other releasable fastening means, to retain the cover in the said first position.
- A sleeping means according to claim 1 characterlsed in that the deformable mattress is an inflatable mattress.
- A sleeping means according to claim 1 characterlsed In that the sleeping means includes a pillow receiving section to receive a pillow therein.
- A sleeping means according to claim 1 characterlsed In that the sleeping means includes a pillow receiving section for the reception of part of the inflatable mattress.
- 7. A sleeping means according to claim 1 character-Ised In that the sleeping means includes a pillow receiving section which, when said sleeping means is not in use for a person to sleep therein, is usable as a storage means so that the mattress and remaining sheet material is moved into the pillow receiving section for storage therein.

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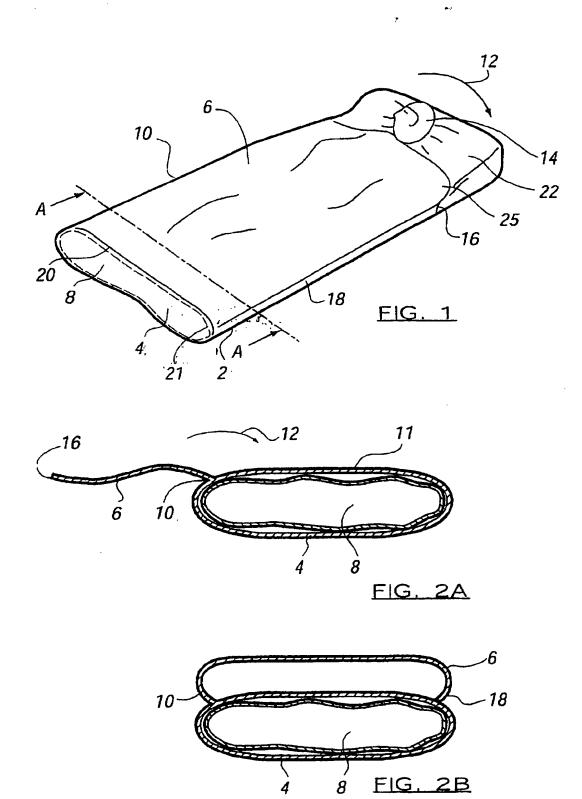
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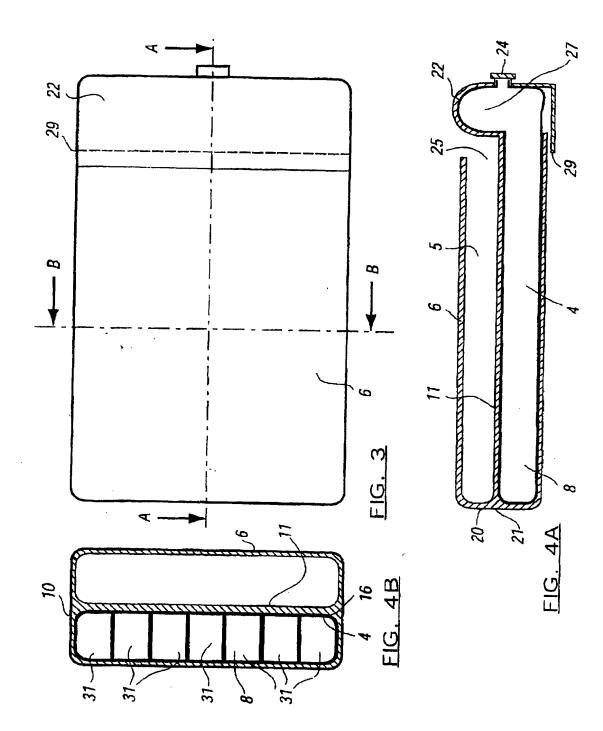
- 8. A sleeping means according to claim 1 characterised in that the sleeping means includes a pillow receiving section which is provided with at least one the dimensional shape attached thereto to depict a character, animal or shape.
- 9. A sleeping means according to claim 8 characterised in that the cover portion of the sleeping means includes an image thereon which is linked to the character, animal or shape depicted by the pillow receiving section.
- 10. A sleeping means according to claim 1 characterised in that the cover portion of the sleeping means includes filling material and/or insulating material to add warmth to the sleeping area.
- 11. A sleeping means according to claim 1 characterised in that an additional portion of sheet material
  is provided with at least one part permanently fixed
  to the sleeping means and at least some of the remaining edges of the said additional portion selectively engageable with the sheet material.
- 12. A sleeping means according to claim 11 characterised in that the said additional portion, when wholly engaged with the sleeping means forms a storage pocket into which the remainder of the sleeping means can be inserted and stored when not in use.
- 13. A sleeping means according to claim 11 character-Ised in that the said additional portion is attached to the underside of the sleeping means.
- 14. A sleeping means according to claim 11 characterised in that a surface of the additional portion facing the underside of the sleeping means when in the in use condition forms an outer surface of the sleeping means when in the storage condition.
- 15. A sleeping means according to claim 14 characterised in that the said surface includes an image applied thereto and said image, when the sleeping means is moved to the storage condition, is externally viewable.
- 16. A sleeping means according to claim 1 characterised in that an inflatable surround is provided around part or all of the sheet material.
- 17. A sleeping means according to claim 16 characterised in that the inflatable structure is connectable to the mattress to allow inflation of the structure and mattress via a single inlet valve.
- 18. A sleeping means according to claim 1 character-Ised In that the sleeping means includes an enclosure structure over at least a portion of the sleeping

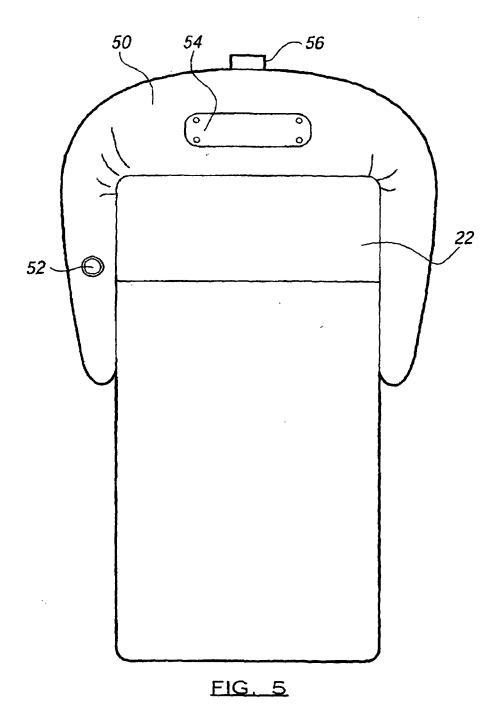
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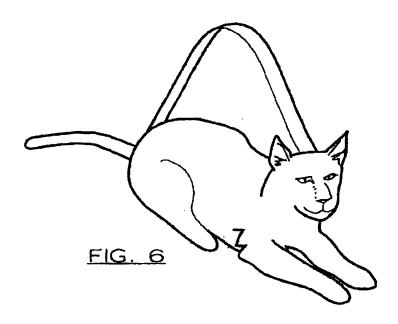
- 19. A sleeping means according to claim 18 characterised in that the enclosure incorporates a frame over which sheet material is placed to form the enclosure.
- 20. A sleeping means according to claim 19 wherein the frame is formed of a series of inflatable members which can be selectively inflated to form the enclosure.
- 21. A sleeping means according to claim 19 characterised in that the frame is formed of a resilient member or members which are biased towards an erected condition for the enclosure.
- 22. A sleeping means according to 19 characterised in that the said resilient members are stored in a coiled condition and, when released, move to an erected condition whereupon the same can be attached to the sleeping means.
- 23. A sleeping means according to claim 1 characterised in that the deformable mattress is an inflatable mattress and is inflated and deflated via a single valve inlet/outlet.
- 24. A sleeping means according to claim 23 characterised in that the value inlet/outlet is located at the pillow end of the sleeping means.

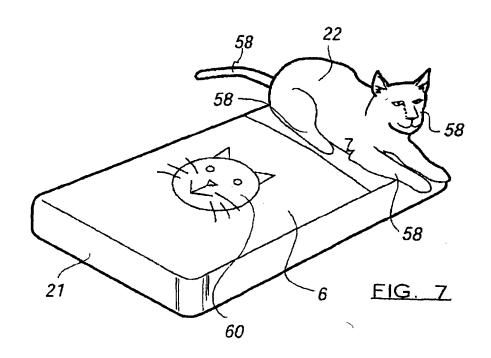
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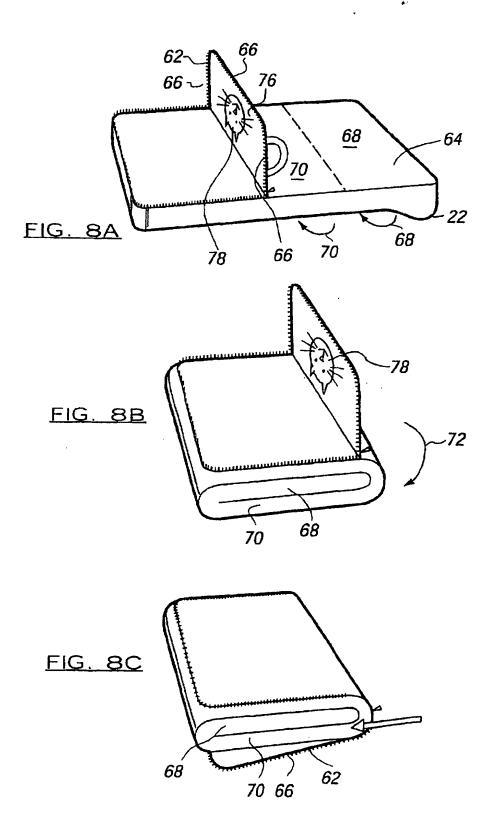


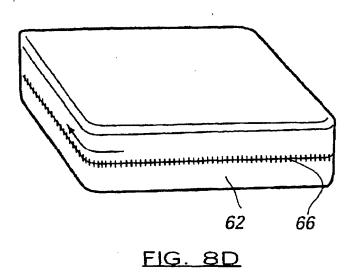












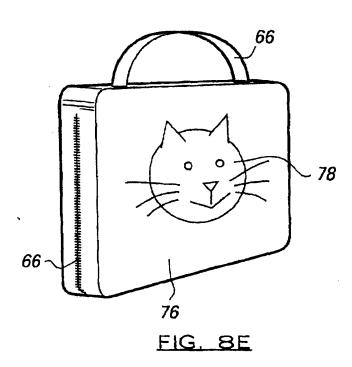


FIG. 9

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